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Twenty-Second Winter  
Commencement Exercises

University of Arkansas

Saturday, January 25, 1969



Program

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Degrees Awarded

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## Commencement Exercises

# University of Arkansas

Saturday, January 25, at 2:00 P. M.

1969

## Program

CARILLONIC BELL CONCERT . . . . .	Sharon Minden
Processional: Trumpet Voluntary . . . . .	Purcell
PROFESSOR KENNETH R. OSBORNE	
The Star Spangled Banner . . . . .	
PROFESSOR KENNETH L. BALLENGER, <i>Choral Director</i>	
Invocation . . . . .	
MINISTER JOE L. BANKS	
<i>Church of Christ, Fayetteville, Arkansas</i>	
Commencement Address . . . . .	
MR. C. H. MURPHY, JR., <i>President</i>	
<i>Murphy Oil Corporation, El Dorado, Arkansas</i>	
Conferring of Degrees . . . . .	
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<i>Deans of the Colleges</i>	
D. P. RANEY, <i>Chairman</i>	
<i>Board of Trustees</i>	
Alma Mater . . . . .	Tovey
PROFESSOR KENNETH L. BALLENGER, <i>Choral Director</i>	
Pure as the dawn on the brow of thy beauty	
Watches thy Soul from the mountains of God	
Over the fates of thy children departed	
Far from the land where their footsteps have trod	
Beacon of hope in thy ways dreary lighted,	
Pride of our hearts that are loyal and true;	
From those who adore unto one who adores us,	
Mother of Mothers, we sing unto you.— <i>By Brodie Payne</i>	
Benediction . . . . .	
MINISTER JOE L. BANKS	
Recessional: Fugue on Kyrie . . . . .	Couperin
PROFESSOR KENNETH R. OSBORNE	

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Presented by Virgil W. Adkisson, Dean of the Graduate School

MASTER OF ARTS

William Paul Alley (English)  
B.A., McNeese State College

Carolyn Sue Auffert (History)  
B.S.E., University of Arkansas

Edward L. Auffert (Mathematics)  
B.S.E., University of Arkansas

Donna Idell Axum (Speech and Dramatic Art)  
B.A., University of Arkansas

Penelope Anne Baldwin (English)  
B.A., Midwestern University

Susan Geron Barnes (Political Science)  
B.S.E., University of Texas

John Edmund Barton (Speech and Dramatic Art)  
B.S.E., Arkansas State College

Loyde F. Beam (Mathematics)  
B.S., Arkansas Polytechnic College

Virginia Ribisa Bedwell (Psychology)  
B.S., Slippery Rock State Teachers College

Charlotte Marie Bishop (Mathematics)  
B.S., Incarnate Word College

Marian Jeanette Nelson Bismark (English)  
B.A., Southern State College

John W. Bruton (English)  
B.A., Western Carolina College

Martha Ann Coleman Butler (History)  
A.B., Webster College

Michael C. Buttrum (Mathematics)  
B.S.E., Henderson State Teachers College

Patsy Ann Calhoun (English)  
B.A., University of Arkansas

Diana Jane Cate (History)  
B.S.E., Arkansas State College

June Strang Chase (English)  
B.A., Southwestern University

Roger Alan Cotton (English)  
B.S.E., Southwest Missouri State College

Tracy Edgar Daugherty (English)  
B.S., Springhill College

Jill Ann Davis (English)  
B.S.E., Bloomburg State College

Billy C. DeWeese (English)  
B.S., Murray State University

Roman De La Campa (Spanish)  
B.A., Briar Cliff College

Clara Darlene Williams Doak (English)  
B.S.E., Arkansas State College

Albert A. Drewry (Mathematics)  
B.S.E.E., University of Arkansas

Gayle Elrod (English)  
B.A., Middle Tennessee State University

David Allen Fincher (English)  
B.A., Hendrix College

Kenneth Lyon Fitts (Speech and Dramatic Art)  
B.A., Drury College

David Carlisle Ford, Jr. (English)  
B.A., University of Arkansas

Barbara Gail Gates (English)  
B.S.E., Henderson State Teachers College

Jay Stefan Gorban (Psychology)  
B.A., University of Maryland

Virginia Beth Greenland (Philosophy)  
B.A., University of Arkansas

Pamela Sue Grissinger (Speech and Dramatic Art)  
B.A., University of Arkansas

Eugene Ernest Grossman (Psychology)  
B.A., University of Minnesota

Claudia Price Hartness (English)  
B.S.E., Arkansas A. & M. College

Cynthia Haseloff (English)  
B.A., University of Arkansas

M.A., University of Arkansas

Frank A. Hitt (German)  
B.A., Arlington State College

Don R. Jordan (Speech and Dramatic Art)  
B.S.E., Southwest Missouri State College

Raymond Haw Klemp (Psychology)  
B.S., Purdue University

Carole Peebles Lane (English)  
B.A., Mount Mary College

Ronald Charles Laney (Psychology)  
B.A., University of Arkansas

Thomas G. Leabhart (Speech and Dramatic Art)  
B.A., Rollins College

Ann Louise Lewallen (Speech and Dramatic Art)  
B.A., University of Arkansas

Tommy W. Lewallen (Speech and Dramatic Art)  
B.A., University of Arkansas

Robert Martin Lewis (English)  
B.A., University of Arkansas

Barbara Lynn (English)  
B.S.E., Arkansas State College

Norman Kay Marshall (Speech and Dramatic Art)  
B.S.E., University of Arkansas

John Kieth Martensen (Speech and Dramatic Art)  
B.A., University of Arkansas

Betty Nobles Matthews (English)  
B.A., Arkansas A. & M. College

Tom Bernie McAnally (Mathematics)  
B.S., Arkansas Polytechnic College

Charles Eugene McKay (English)  
B.A., Arkansas College

Richard Lawrence Means (History)  
B.A., Henderson State Teachers College

Faye Masters Moore (English)  
B.A., Harding College

James Anthony Moravec, Jr. (Psychology)  
A.B., University of Nebraska

Ann Haven Morledge (Speech and Dramatic Art)  
B.A., Southern Methodist University

John Howard Morris (History)  
B.A., University of Arkansas

Joe Mosley (English)  
B.A., Texas Technological College

Carol Cantwell Nasworthy (English)  
B.A., Oklahoma State University

Eunice C. Noland (Psychology)  
B.A., University of Illinois

Julia Ann Oxner (English)  
B.S.E., Arkansas State College

Byung Ho Park (Political Science)  
B.A., Korea University

Helen Marie Pate (English)  
 B.A., Lamar State College of Technology  
 Jimmy Dale Peacock (French)  
 B.A., Ouachita Baptist College  
 M.B.A., University of Arkansas  
 Charles Henry Pearson (Mathematics)  
 B.S., Arkansas Polytechnic College  
 Nancy Philley (English)  
 B.A., University of Arkansas  
 Susie M. Pittman (Speech and Dramatic Art)  
 B.A., College of the Ozarks  
 Charles G. Rooney, Jr. (English)  
 B.A., State University of New York  
 Sita Maddali Rao (English)  
 M.A., Andhra University  
 Karen Jewel Ryer (English)  
 B.A., Drury College  
 Charles Lee Sandage (Speech and Dramatic Art)  
 B.S.E., Henderson State Teachers College  
 Earl F. Schrock, Jr. (English)  
 B.A., Arkansas Polytechnic College  
 Preston F. Sisk (Speech and Dramatic Art)  
 B.A., Memphis State University  
 Philip D. Skelton (English)  
 B.S.E., Arkansas State Teachers College  
 Patricia Gail Smee (Psychology)  
 B.A., Arkansas Polytechnic College

Thomas Richard Stephenson (Psychology)  
 B.A., Arkansas State Teachers College  
 Kaye Southerland Tatum (Speech Pathology)  
 B.A., University of Arkansas  
 Clifton James Taylor (History)  
 B.S., Wisconsin State College  
 Cecil E. Underwood (English)  
 B.S.E.D., Northeastern State College  
 Thomas Haskell Utley (English)  
 B.A., University of Arkansas  
 Frank J. Villani (English)  
 B.A., State University College At Oneonta  
 Ruth Ann Waits (English)  
 B.A., Louisiana Polytechnic Institute  
 W. G. Webster (English)  
 B.A., University of Omaha  
 John Townsend West, III (English)  
 B.A., Arkansas Polytechnic College  
 Philip L. Wilkerson (History)  
 B.A., Harding College  
 Charles G. Williams (History)  
 B.S.E., Arkansas A. & M. College  
 John Howard Wink (English)  
 B.A., University of Southern Mississippi  
 Sharon LaAnn Wisener (Speech and Dramatic Art)  
 B.A., University of Arkansas

## MASTER OF SCIENCE

William Wilson Abbott (Poultry Science)  
 B.S.A., University of Arkansas  
 William David Bacon (Mathematics)  
 B.S., Southern State College  
 Verna Mae Baker (Foods and Nutrition)  
 B.S.H.E., University of Arkansas  
 Everett H. Barman, Jr. (Entomology)  
 B.S., Central State College  
 Jewel Taylor Barr (Animal Science)  
 B.S.A., University of Arkansas  
 Don Clark Barrett (Animal Science)  
 B.S.A., University of Arkansas  
 William Lanny Bateman (Agricultural Economics)  
 B.B.A., Southern State College  
 Charles E. Blackstock (Computer Science)  
 B.A., University of Arkansas  
 Imon Lynn Brown (Entomology)  
 B.S.A., University of Arkansas  
 Mary Ann Eddy Brown (Home Economics)  
 B.S., Harding College  
 Gary L. Burkholder (Zoology)  
 A.B., Northwest Nazarene College  
 Bennie L. Byler (Animal Science)  
 B.S.A., Arkansas State University  
 John Robert Carr (Natural Sciences)  
 B.S., University of Arkansas  
 Samuel Anderson Covington (Botany)  
 B.S., University of Arkansas  
 Preston Lamar Cowger (Instrumental Science)  
 B.S., Arkansas Polytechnic College  
 Kenneth E. Damann, Jr. (Plant Pathology)  
 B.S.E., Eastern Illinois University  
 O. D. Daniel (Mathematics)  
 B.S., Southern State College  
 Richard Edward Dehn (Mathematics)  
 B.S., Memphis State University

Ann Dixon (Home Economics)  
 B.S., Ouachita Baptist College  
 Richard Erwin Dobbs (Physiology)  
 B.S., Arkansas State Teachers College  
 Nathan Leland Dodd (Plant Pathology)  
 B.A., Hendrix College  
 Fern Hubbard Dotson (Home Economics)  
 B.S.H.E., University of Arkansas  
 Stanley H. Duke (Botany)  
 B.S., Henderson State Teachers College  
 Stephen Oscar Duke (Botany)  
 B.S., Henderson State Teachers College  
 Ronald Edmond Everett (Entomology)  
 B.S.A., University of Arkansas  
 Marie G. Fair (Natural Sciences)  
 B.S.E., University of Arkansas  
 Albert R. Filippelli (Physics)  
 B.S., University of Arkansas  
 James Thomas Fiser (Instrumental Science)  
 B.S., Little Rock University  
 John Robert Fuller (Natural Sciences)  
 B.S.E., University of Michigan  
 Milton Dale Gallimore (Agronomy—Crops)  
 B.S., Murray State College  
 Elsie LaJune Garner (Home Economics)  
 B.S.E., State College of Arkansas  
 Barbara Jane Greever (Natural Sciences)  
 B.A., Mississippi State College For Women  
 Charles Robert Handford (Geology)  
 B.S., Northeast Louisiana State College  
 Donny Lee Harris (Entomology)  
 B.S., Arkansas Polytechnic College  
 Edward McCray Harris (Chemistry)  
 B.S., Little Rock University  
 Harold Henry Hartman (Mathematics)  
 B.S., University of Arkansas  
 Eddie Lee Higgins (Home Economics)  
 B.S., Arkansas A. M. & N. College

Bettye Jean Hill (Home Economics)	Douglas E. Rucker (Mathematics)
B.S., Arkansas A. M. & N. College	B.S., Arkansas Polytechnic College
Rodney Leon Holloway (Entomology)	Loy Dale Rowbotham (Natural Sciences)
B.S., Ouachita Baptist University	B.S., College of the Ozarks
Virgil Edwin Horn, Jr. (Instrumental Sciences)	Ralph Sheets (Chemistry)
B.S., Stephen F. Austin State College	B.S., Henderson State Teachers College
Joseph M. Hudson (Animal Science)	Charles K. Showalter (Radiation Sciences)
B.S.A., University of Arkansas	B.S., Arkansas State Teachers College
Sada Lewis Hutcheson (Microbiology)	Walter W. Sisson (Natural Sciences)
B.S., University of Arkansas	B.S.A., University of Arkansas
Richard Earnest Ivy (Poultry Science)	Buster Lewis Slaten (Chemistry)
B.S., University of Arkansas	B.S., Arkansas A. & M. College
Peggy Lee Jeter (Natural Sciences)	Freddy Allan Smith (Animal Science)
B.A., Hendrix College	B.S., Oklahoma State University
Linda Joan Case Kitchens (Home Economics)	Harold Ray Smith (Agronomy-Crops)
B.S.E., Henderson State Teachers College	B.S.A., University of Arkansas
F. Sanford Ladge (Natural Sciences)	David D. Snellings, Jr. (Radiation Science)
B.A., University of Arkansas	B.S., Arkansas Polytechnic College
Robert O. Lawrence, Jr. (Animal Nutrition)	George Sourliss (Physics)
B.S.A., University of Arkansas	B.S., Purdue University
Bobby Ray Layton (Chemistry)	James Frederic Sprouse (Instrumental Sciences)
B.S., Arkansas State College	B.A., Kansas State
Georgia Lynn Martin (Natural Sciences)	J. W. Stewart (Entomology)
B.A., Arkansas College	B.A., Arkansas Polytechnic College
Ralph Gene Martin (Agricultural Economics)	David L. Stiers (Botany)
B.S.A., University of Arkansas	B.S., Ouachita Baptist College
Rebecca Sue Massey (Bacteriology)	Clyde Arthur Stuart, Jr. (Agricultural Economics)
B.A., Hendrix College	B.S.A., Arkansas State College
Edward Paul Mason (Entomology)	Michael John Sweeney (Poultry Science)
B.S.A., University of Arkansas	B.S.A., University of Arkansas
Danny Gene McCarter (Agricultural Economics)	Dale Lloyd Swindle, Jr. (Chemistry)
B.S., Oklahoma A. & M. College	B.S., Arkansas Polytechnic College
Virginia L. McMillan (Microbiology)	Mary Anne Swindle (Chemistry)
B.S., Lamar State College of Technology	B.S., St. Mary Dominican College
Loretta Graves McNatt (Biochemistry)	John Randolph Talburt (Mathematics)
B.S., Southern State College	B.S., Arkansas State University
George B. Moreledge, III (Natural Sciences)	Leatha Taylor (Home Economics)
B.A., Westminster College	B.S., Northeastern State College
Robert O. Nason (Computer Science)	Yao-Chung Teng (Agronomy-Crops)
B.S., Henderson State Teachers College	B.S., Taiwan Provincial Chung Hsing University
Sandra Gail Wheat Orsini (Bacteriology)	William H. Tennison (Natural Sciences)
B.A., University of Arkansas	B.A., Howard Payne College
James F. Outlaw, Jr. (Chemistry)	Milton Ray Tucker (Agronomy-Soils)
B.S., Texas A. & I. College	B.S., Northeast Louisiana State College
Wilbur Blackstone Owen, Jr. (Zoology)	William Robert Vandivere
B.A., Arkansas State Teachers College	(Agronomy-Crops)
John Terry Peel (Natural Sciences)	B.S.A., University of Arkansas
B.S.E., University of Arkansas	Ella Mae Walker (Home Economics)
Alan Franklin Posey (Entomology)	B.S., Arkansas A. M. & N. College
B.S.E., Arkansas State College	Linda Shultz Wallace (Mathematics)
Vonne Ronald Prentice (Zoology)	B.A., Arkansas College
B.S.E., Northeastern State College	Thomas E. Ward (Chemistry)
Birdie Lane Wright Rader (Zoology)	B.S., Northeastern State University
B.S.E., University of Arkansas	Jerry Edward Webb (Poultry Science)
Luther H. Roberts, Jr. (Entomology)	B.S.A., University of Arkansas
B.S.A., University of Arkansas	Joe Darell Widick (Agronomy-Crops)

## MASTER OF BUSINESS ADMINISTRATION

Sunthorn Arunanondchai  
B.B.A., Southern State College  
Charmayne B. Kimball Bondurant  
B.S.B.A., University of Arkansas

Bob Carmichael  
B.B.A., Eastern New Mexico University  
Frederick R. Chandler, Jr.  
B.S.B.A., University of Arkansas

Michael W. Clark	Terry Van Rankin
B.S.B.A., University of Arkansas	B.S., University of Mississippi
Dale Gene Cosgrove	James William Rogers
B.S.B.A., University of Arkansas	B.S.B.A., University of Arkansas
John Charles Cox	John White Shannon
B.S.E.E., University of Arkansas	B.S.B.A., University of Arkansas
William Willis Deloney	Robert Larkan Snider
B.A., Lamar State College of Technology	B.A., Ouachita University
Max William Dilley	Jimmy Darrell Southerland
B.A., Upper Iowa College	B.S., Southwest Missouri State College
Charles H. Elvers	Jeanne Speakman
B.S., Dana College	B.S.B.A., University of Arkansas
Thomas Arthur Feilke	William Henry Stewart, Jr.
B.S.B.A., University of Arkansas	B.S., Southwest Missouri State College
John Ray Graham	Jack Terrance Stovall
B.S.B.A., Kansas State University	B.S.B.A., University of Omaha
James Monroe Gray	James Adams Street
B.S., Dana College	B.S., Pennsylvania State University
Joel Franklin Hawkins	John E. Street, Jr.
B.B.A., Arkansas State Teachers College	B.S., Arkansas Polytechnic College
John Luther Heflin, Jr.	James W. Stuart
B.A., Ouachita Baptist University	B.B.A., Southern State College
Robert Kinley Hegglund	Michael Marsh Taylor
B.S., Georgia Institute of Technology	B.S., Austin Peay State College
John Richard Jackson, Jr.	Carolyn Louise Thompson
B.S.B.A., University of Arkansas	B.S.B.A., Arkansas State Teachers College
B.A., University of Arkansas	Jack L. Thompson
John Stephen Jeter	B.S.B.A., University of Arkansas
B.A., Harding College	John William Tiede
James L. Jetton	B.S., Southwest Missouri State College
B.S.B.A., University of Arkansas	Donald R. Vines
William Thomas Karrow	B.S.B.A., University of Arkansas
B.A., Wartburg College	Robert Joseph Werner
Richard R. Mackowiak	B.B.A., University of Notre Dame
B.S., Christian Brothers College	William Franklin Whitaker, Jr.
John G. Marino	B.S., Austin Peay State College
B.S.B.A., University of Arkansas	Gary Edward Wilson
Joe C. McDonald, III	B.S., Southwest Missouri State College
B.S., Henderson State Teachers College	Glenn Astor Wilson, Jr.
Linda C. Mitchusson	B.S., University of Southwestern Louisiana
B.S., East Central State College	James Henry Wood
Gary Chester Morris	B.B.A., Midwestern University
B.S., Southwest Missouri State College	Michael Barnett Wright
Kenneth C. Packard	B.A., Little Rock University
B.S.B.A., Kansas State College of Pittsburgh	Richard H. Wyatt
Stephen Edward Plamen	B.S.B.A., University of Arkansas
B.S., Bradley University	

## MASTER OF EDUCATION

Faye Abernathy (Secondary Education)	Robert Harold Brown (Recreation)
B.S., Arkansas Polytechnic College	B.S.E., University of Arkansas
J. Benton Allen, Sr. (Educational Administration)	Sibyl Brockman Brown (Secondary Education)
B.A., Harding College	B.S., Arkansas A. & M. College
Joe F. Barlow (Educational Administration)	Geraldine Buckingham (Secondary Education)
B.S.E., Arkansas A. & M. College	B.S., Arkansas A. M. & N. College
Bobby Ray Barrett (Educational Administration)	Wilma Jean Cherry (Counselor Education)
B.S.E., Henderson State Teachers College	B.S., University of Arkansas
Charles H. Berry (Physical Education)	Doris Geren Collins (Elementary Education)
B.S.E., Arkansas Polytechnic College	B.S.E., University of Arkansas
Barbara Kay Boland (Counselor Education)	Angelo George Coppola, Sr. (Secondary Education)
B.S., Oklahoma State University	B.S.E., Arkansas State College
Paul Dean Bond (Vocational Education)	Irmgard Koerber Corbin (Elementary Education)
B.S.A., University of Arkansas	B.S.E., University of Arkansas
Frances L. Brookes (Secondary Education)	
A.B., Henderson State Teachers College	
Carole Jean Brown (Counselor Education)	
B.S.B.A., University of Arkansas	

Frances Ann Coulter (Secondary Education)  
B.S.E., Ouachita Baptist University

Mercedier Turner Cunningham (Counselor Education)  
B.A., Philander Smith College

Mayburn L. Davidson (Educational Administration)  
B.S.E., Southeast Missouri State College

Hazel C. Dickey (Secondary Education)  
B.S.E., Arkansas State College

Katy Pat Dorsey (Elementary Education)  
B.S.E., Arkansas State College

John Clifford Dwyer (Counselor Education)  
B.A., University of Arkansas

Bonnie Jaunice Davis Dyer (Counselor Education)  
B.S.E., Henderson State Teachers College

John Alvin Eason (Counselor Education)  
B.S., Arkansas A. M. & N. College

Johnnie J. Ewing (Educational Administration)  
B.S.E., Henderson State Teachers College

Howard M. Faulkner (Counselor Education)  
B.A., Arkansas Polytechnic College

Hazel Comstock Fears (Elementary Education)  
B.S.E., Arkansas State Teachers College

Aline Strang Fuller (Elementary Education)  
B.S.E., University of Arkansas

Shirley Nance Fuqua (Secondary Education)  
B.S.E., Southeast Missouri State College

Aggie P. Gaddy (Counselor Education)  
B.S.E., Arkansas A. M. & N. College

John F. Gardner, III (Music Education)  
B.M., Oklahoma Baptist College

Charles Wayne Garman (Secondary Education)  
B.S.E., University of Arkansas

Patricia A. Gates (Elementary Education)  
B.S.E., Arkansas A. & M. College

Sarah Annette Gathright (Physical Education)  
B.S.E., University of Arkansas

Edward Eugene Gibble (Music Education)  
B.M.E., University of Tulsa

De Lois Gibson (Counselor Education)  
B.A., Philander Smith College

Frank Orlin Gilbert (Secondary Education)  
B.S., Iowa State University

Benny L. Gooden (Educational Administration)  
B.A., Harding College

Yener Gulmez (Secondary Education)  
B.S.E., University of Arkansas

Roy Gunter (Secondary Education)  
B.A., University of Mississippi

Shirley M. Haskew (Elementary Education)  
B.S.E., Arkansas A. & M. College

Ruth M. Haymon (Elementary Education)  
B.S.H.E., Arkansas A. M. & N. College

Thomas Phillip Holton (Physical Education)  
B.A., Rockhurst College

Mary Beth Hughes (Elementary Education)  
B.S., Arkansas Polytechnic College

Sarah Frances Hundley (Elementary Education)  
B.S.E., Arkansas A. & M. College

Ralph Wayne Ingram (Secondary Education)  
B.S.E., University of Arkansas

Sarah Ann Irby (Music Education)  
B.M.E., Arkansas State Teachers College

Ava Fuller Jackson (Elementary Education)  
B.S., Arkansas A. M. & N. College

Barbara Frances Jackson (Elementary Education)  
B.S., Grambling College

Janice E. James (Secondary Education)  
B.A., University of Arkansas

Ellena Kay Johnson (Elementary Education)  
B.S.E., Central State College

Joyce Jean Johnson (Elementary Education)  
B.S., Arkansas State Teachers College

Lamar Jones (Educational Administration)  
B.A., Arkansas A. M. & N. College

Mabel O. Jordan (Vocational Education)  
B.S., John Brown University

Ethel Marie Zukowski Kilgore (Secondary Education)  
B.S.E., University of Arkansas

Raymond Ray Kinslow (Educational Administration)  
B.A., Bethel College

Glen Galen Langston (Educational Administration)  
B.S.E., University of Arkansas

Franklin L. Lewis (Educational Administration)  
B.S.E., Arkansas State Teachers College

Velma Martin (Vocational Education)  
B.S.E., Arkansas State Teachers College

Oneida Mathews (Secondary Education)  
B.A., Mary Hardin College

Dorothy M. Matthews (Elementary Education)  
B.A., Little Rock University

Judith Thomason McCord (Elementary Education)  
A.B., Louisiana Grange College

Orlin R. McLean (Counselor Education)  
B.A., Union College

E. Elizabeth McMahan (Vocational Education)  
B.S.E., University of Arkansas

Virginia Brooks Minor (Elementary Education)  
B.S., Oklahoma State College

Harris Frank Mitchell, Jr. (Educational Administration)  
B.S., Southern State College

Annie Clyde Moore (Elementary Education)  
B.S.E., Arkansas A. & M. College

Doyle W. Morgan (Counselor Education)  
B.S.A., University of Arkansas

Willard Bill Neal (Physical Education)  
B.S.E., Ouachita Baptist University

Janet Dixon Newton (Counselor Education)  
B.S.E., Arkansas State Teachers College

Charles W. Oliver (Education Administration)  
B.S., Sul Ross State College

Judith Kay Orintas (Elementary Education)  
B.S.E., University of Arkansas

William A. Ortego, Jr. (Elementary Education)  
B.A., Louisiana College

David Eugene Pamplin (Educational Administration)  
B.S.E., Arkansas A. & M. College

John Keith Parrish (Physical Education)  
B.S., Arkansas Polytechnic College

Harlon Brodie Patterson (Secondary Education)  
B.S., Southern State College

Beatrice Blackwell Payne (Secondary Education)  
B.S., Arkansas Polytechnic College

Janis Ann Perrin (Elementary Education)  
B.A., Little Rock University

Donna Cochran Peterson (Elementary Education)  
B.S.E., Kansas State College

H. Phil Phillips, Jr. (Physical Education)  
B.S., Arkansas Polytechnic College

Ernestine Preston (Elementary Education)  
B.S., Arkansas A. M. & N. College

Paul Scott Richardson (Education Administration)  
B.S.E., University of Arkansas

Janet Carolyn Ridgway (Elementary Education)  
B.S., Kansas State Teachers College

Ralph D. Rogers (Educational Administration)  
B.S.A., University of Arkansas

John Douglas Rotert (Secondary Education)  
B.S.E., University of Arkansas

Mary Ann Sisco Rush (Secondary Education)  
B.S.E., John Brown University

Donald C. Shannon (Physical Education)  
B.A., Sacramento State College

Margaret Charlene Shehane (Counselor Education)  
B.S.E., Henderson State Teachers College

Waynette R. Shockey (Physical Education)  
B.S.E., University of Arkansas

Delores Annette Smith (Counselor Education)  
B.A., Little Rock University

Victor David Sosebee (Educational Administration)  
B.A., College of the Ozarks

James M. Starling, Jr. (Secondary Education)  
B.S.E., University of Arkansas

Betty Leverette Stewart (Elementary Education)  
B.S.E., University of Arkansas

Jackie J. Sutterfield (Educational Administration)  
B.S., Arkansas Polytechnic College

JoeAnn V. R. Sutton (Elementary Education)  
B.A., Philander Smith College

Daisy Ann Tatum (Physical Education)  
B.S., Arkansas A. M. & N. College

Ronald L. Thomas (Counselor Education)  
B.A., University of Arkansas

Carolyn J. Thorn (Elementary Education)  
B.S.E., University of Arkansas

Margaret Ellen Thurman (Secondary Education)  
B.S.E., University of Arkansas

Ronald W. Toothaker (Physical Education)  
B.S., Arkansas Polytechnic College

Bobby Jack Tucker (Educational Administration)  
B.S.A., University of Arkansas

Virginia Kay Turner (Counselor Education)  
B.A., University of Arkansas

Donald Lindsey Turney (Educational Administration)  
B.S.E., Arkansas A. & M. College

Benny C. Watson (Counselor Education)  
B.S.E., Arkansas A. & M. College

Dean Wilburn (Educational Administration)  
B.S., Arkansas Polytechnic College

Paul L. Wilcox (Vocational Education)  
B.S., New Mexico State University

Bonita Lynne Williams (Vocational Education)  
B.S., Ouachita Baptist University

Sally Rand Williams (Vocational Education)  
B.S.B.A., University of Arkansas

Rose Marie Willis (Vocational Education)  
B.S.H.E., University of Arkansas

Marilyn Tabor Windle (Secondary Education)  
B.A., University of Arkansas

#### MASTER OF SCIENCE IN CHEMICAL ENGINEERING

Kutumbarao Tummala (Chemical Engineering)  
B.S., Andhra University

#### MASTER OF SCIENCE IN CIVIL ENGINEERING

Gerald Wayne Bobo (Civil Engineering)  
B.S.C.E., University of Arkansas

Robert David Burson (Civil Engineering)  
B.S.C.E., University of Arkansas

Eugene Debs Erwin (Civil Engineering)  
B.S.C.E., University of Arkansas

Larry David Gaddis (Civil Engineering)  
B.S.C.E., University of Arkansas

Robert T. Harriell, Jr. (Civil Engineering)  
B.S.C.E., University of Arkansas

Joseph Edison Keithley, Jr. (Civil Engineering)  
B.S.C.E., University of Arkansas

John W. Stiles (Civil Engineering)  
B.S.C.E., University of Arkansas

## MASTER OF SCIENCE IN ELECTRICAL ENGINEERING

James Michael Connell (Electrical Engineering)  
B.S.E.E., University of Arkansas

Bulent F. Guleryuz (Electrical Engineering)  
B.S.E.E., Istanbul Teknik Okulu

Charles Edward Moore, Jr. (Electrical Engineering)  
B.S.E.E., University of Arkansas

Elvie E. Moaty, Jr. (Electrical Engineering)  
B.S.M.E., University of Arkansas

B.S.E.E., University of Arkansas

Darryl Ray Polk (Electrical Engineering)  
B.S.E.E., University of Arkansas

## MASTER OF SCIENCE IN ENGINEERING

Clell A. Callaway (Engineering)  
B.S.I.E., University of Arkansas

James Moore Eldridge (Engineering)  
B.S.I.M., University of Arkansas

## MASTER OF SCIENCE IN INDUSTRIAL ENGINEERING

John Wesley Barnes (Industrial Engineering)  
B.S.E., University of Texas

Larry G. Brown (Industrial Engineering)  
B.S.E.E., University of Arkansas

Rodney Gilbreath (Industrial Engineering)  
B.S.I.E., University of Arkansas

Dickie Don Hairston (Industrial Engineering)  
B.S.I.E., University of Arkansas

James Ray Sellick (Industrial Engineering)  
B.S.I.E., University of Arkansas

Donald R. Smith (Industrial Engineering)  
B.S.I.E., University of Arkansas

Dwarkadas Kanji Somaia (Industrial Engineering)  
B.ENG., Gujarat University

## MASTER OF SCIENCE IN MECHANICAL ENGINEERING

Stephen C. Pile (Mechanical Engineering)  
B.S.M.E., University of Arkansas

## MASTER OF MUSIC

Penny Garrett (Voice)  
B.M., Indiana University

Valda B. Pancoast (Music)  
B.M., University of Missouri

## MASTER OF FINE ARTS

Dale Olafur Amundson (Art)  
B.F.A., University of Manitoba

George W. Potter (Art)  
B.A., Central College  
M.A., University of Iowa

## DOCTOR OF EDUCATION

Billy Joe Arrington (Physical Education)  
B.A., Ouachita Baptist  
M.Ed., Midwestern University  
Dissertation: "The Effects of Regular Short Periods of Exercise with the Exer-Genie Exerciser on the Cardiovascular Condition of Selected Individuals."

Wesley Dean Bair (Physical Education)  
B.S.E., Illinois State Normal University  
M.S.E., Illinois State Normal University  
Dissertation: "The Status on Testing in Physical Education in the Large High Schools of the Chicago Suburban Area."

Talmage Earl Banister (Vocational Education)  
B.S., Southeastern Louisiana College  
M.Ed., University of Arkansas  
Dissertation: "Evaluation of Equipment, Facilities, and Instructional Resources in Distributive Education Programs in Arkansas."

Charles Coit Boardman (Secondary Education)  
B.S., College of William and Mary  
M.Ed., Rutgers University  
Dissertation: "A Study of the Audience for an Open-Broadcast Instructional Television Program in Economics."

Richard A. Brooker (Educational Administration)  
B.S.E., Kansas State College of Pittsburgh  
M.S., Kansas State Teachers College  
Dissertation: "Comparative Analysis of the Results of the College Characteristics Index Administered at a Single University."

M. G. Cameron (Educational Administration)  
B.S.E., Southwest Missouri State College  
M.S., Kansas State College of Pittsburgh  
Dissertation: "Academic Service Charges to Students in the Arkansas Public Secondary Schools."

**Leslie Verl Carnine (Educational Administration)**

B.A., Buena Vista College  
M.Ed., Central Missouri State College  
Dissertation: "The Federal Aid Coordinator in Arkansas Public Schools 1967-68."

**Bob L. Chalender (Educational Administration)**

B.S., Kansas State University  
M.S., Wichita State University  
Dissertation: "An Appraisal of the Equalization, Equity, and Tax Broadening Aspects of the 1965 Kansas Foundations Finance Act as Amended."

**Oscar Drew Christie (Higher Education)**

B.A., New Mexico State University  
M.A., San Diego State College  
Dissertation: "The Relationship Between Types of Housing Available at Kansas State Teachers College and Selected Academic and Behavioral Factors."

**Bobby L. Coker (Educational Administration)**

B.A., Harding College  
M.S., Arkansas State College  
Dissertation: "Documentary Appraisal of Negotiated Grievance Procedures for Teachers."

**Paul R. Fair (Educational Administration)**

B.S.E., University of Arkansas  
M.S., University of Arkansas  
Dissertation: "Comparative Effects of Using Initial Teaching Alphabet and Traditional Orthography Mediums in Initial Reading Instruction."

**Shirley E. Stauber Friend (Higher Education)**

B.S.H.E., University of Arkansas  
Dissertation: "Relationship Between Degree of Value Attributed to Clothing and the Self-Concept of Physically Handicapped Students."

**William Frederick Grady (Educational Administration)**

B.A., Harding College  
M.Ed., University of Arkansas  
Dissertation: "The Development of a Plan to Prepare Educational Media for the Public Schools of Arkansas."

**Carol Ham (Elementary Education)**

B.S., Southern State College  
M.Ed., University of Arkansas  
Dissertation: "An Appraisal of Administration Policies and Practices Utilized in the Administration of Selected Aspects of Off-Campus Student Teaching Programs in Arkansas."

**Robert Lynn Honea (Secondary Education)**

B.B.A., North Texas State College  
M.B.A., North Texas State College  
Dissertation: "A Study of the Change in Learning Potential Induced by Low-Level D. C. Brain Polarization of Normal Adults."

**Delton Lee Johnson (Industrial Education)**

B.S.E., Kansas State Teachers College  
M.S., Kansas State Teachers College  
Dissertation: "State Handbooks for Industrial Arts: A Comparison of Content with Judgments of Leaders and Examination of Trends Reflected in these Publications."

**Herbert Hall Lawrence (Educational Administration)**

B.A., Harding College  
M.A., George Peabody College  
Dissertation: "The Development of a Model Media Course for the Professional Preparation of Elementary and Secondary Teachers in Arkansas."

**Richard Anthony Musemeche (Educational Administration)**

B.B.S., Louisiana State University  
M.E., Louisiana State University  
Dissertation: "A Profile of the School Superintendent in Louisiana 1968."

**Jerry Dale Perrin (Educational Administration)**

B.A., Harding College  
M.Ed., University of Arkansas  
Dissertation: "A Statistical and Time Change Analysis of Achievement Differences of Children in a Nongraded and a Graded Program in Selected Schools in the Little Rock Public Schools."

**Sherman Baxter Peterson (Educational Administration)**

B.A., Hendrix College  
M.Ed., University of Arkansas  
Dissertation: "The Purchasing Practices of Large Schools in Arkansas with Comparison on Selected Items with Small Schools"

**Don Runyan Roberts (Educational Administration)**

B.A., Henderson State Teachers College  
M.S.E., Henderson State Teachers College  
Dissertation: "A Study to Determine the Need of a Comprehensive Community Junior College in Pulaski County, Arkansas."

**Henry David Scogin (Physical Education)**

B.S.E., Arkansas A. & M. College  
M.Ed., University of Arkansas  
Dissertation: "A Comparison of Swimming Performances Following Selected Intensities of Warm-Up with Varied Rest Intervals."

**James Neal Shannahan (Educational Administration)**

A.B., Drury College  
M.Ed., Drury College  
Dissertation: "The Feasibility and the Desirability of a State Property Insurance Fund for the Arkansas Public Schools."

**Charles F. Ray Souris (Industrial Educational)**

B.S., Kansas State College  
M.A., Kansas State College  
Dissertation: "The Probability of Enrollment and Success of High School Seniors in an Industrial and Technical Teacher Education Program in the State of Arkansas."

**James Earl Sullivan (Educational Administration)**

B.S., Centenary College  
M.E., Northwestern College of Louisiana  
Dissertation: "The Academic Success of Transfers to the Upper-Division at the University of Arkansas."

**Maxine G. Trimble (Higher Education)**

B.S.E., Kansas State University  
M.S., Kansas State University  
Dissertation: "Measurement of Perceived Campus Press on Three Student Groups at the Kansas State Teachers College of Emporia."

## DOCTOR OF PHILOSOPHY

### Lewis Neal Amis (Economics)

B.A., George Peabody College

M.A., George Peabody College

Dissertation: "A Study of the Longrun Determinants of Gasoline Price Levels: and Explanatory and Prediction Model."

### James Bryan Barksdale, Jr. (Mathematics)

B.A., University of Arkansas

M.S., University of Arkansas

Dissertation: "Some Investigations Concerning Analysis in Normed Vector Spaces."

### James Owen Baugh (Chemistry)

B.A., Hendrix College

M.S., University of Arkansas

Dissertation: "A Study of Fission Products and Single Fallout Particles in the Atmosphere."

### Carroll F. Blakemore (Mathematics)

B.S., University of Arkansas

M.S., University of Arkansas

Dissertation: "On P-Coherent Spaces."

### Russell Gene Brasher (Mathematics)

B.A., Hendrix College

M.S., University of Arkansas

Dissertation: "The Orientable Double Covering of a Nonorientable Manifold, and Related Spaces."

### Chester Eugene Canada (Physics)

B.S., University of Louisville

M.S., University of Louisville

Dissertation: "Measurements of Thomson Coefficients."

### Robert C. Culpepper (Business Administration)

B.S., Arkansas A. & M. College

M.B.A., University of Arkansas

Dissertation: "A Study of the Effect of Certain Alternative Accounting Methods on Regulatory Decisions in the Gas Utility Industry."

### Donald Wayne Davis (Zoology)

B.A., University of Missouri

M.A., University of Saskatchewan

Dissertation: "The Behavior and Population Dynamics of the Red Squirrel (*Tamiasciurus Hudsonicus*) in Saskatchewan."

### Edward Daniel Dill (Chemistry)

B.S., Southwestern State College

Dissertation: "The Crystal and Molecular Structures of 2-Aminopyridinium (I) Oxotrichloroselenate and Tetraphosphorour-Trisulfide Molybdenum Pentacarbonyl."

### Herbert Lee Fine (Psychology)

B.A., Washington University

M.A., University of Arkansas

Dissertation: "Stimulus Factors in Exploratory Behavior."

### Patricia Ingram Garland (Business Administration)

B.S., Louisiana Polytechnic Institute

M.B.A., University of Arkansas

Dissertation: "The Changing Social and Economic Status of the Negro Market."

### Robert William Gruebel (Physics)

B.S., University of Arkansas

M.S., University of Arkansas

Dissertation: "Determination by X-Ray Diffraction of Electronic and Molecular Distributions in Liquids Composed of Substituted Ethylene Molecules."

### Jerome McCain Hatcher (Engineering)

B.S., Louisiana Polytechnic Institute

M.S.I.E., University of Arkansas

Dissertation: "A Study of the Effect of In-Process Storage Capacity on the Output Rate of Production Lines."

### Darrell Keith Hutchins (Physics)

B.S., Northeastern State College

M.S., University of Arkansas

Dissertation: "Pulse Nuclear Magnetic Resonance in Cesium Fluoride."

### Donald D. Killion (Crops)

B.S., University of Missouri

M.S., University of Missouri

Dissertation: "Responses of Cotton and Soybean Mitochondrion to Inhibitors and Phytotoxins."

### Donald Lewis Kyle (Business Administration)

B.B.A., Southern State College

M.B.A., University of Arkansas

Dissertation: "An Inquiry into the Propriety of Using Long-Term Leasing in a Selected Retail Chain."

### William W. Manders (Biochemistry)

B.S., University of New Hampshire

Dissertation: "Studies on Lysine-Sensitive Aspartokinase."

### John Elmslie Martin (Chemistry)

B.A., DePauw University

Dissertation: "Photochemistry of Some Square Planar Complexes."

### Morris Hitt Middleton (Psychology)

B.S., Memphis State University

M.S., University of Arkansas

Dissertation: "Semantic Differential Ratings as a Function of Three Context Variables."

### Murl Wayne Parker (Engineering)

B.S.I.E., University of Arkansas

M.S.I.E., University of Arkansas

Dissertation: "The Analysis of Nonserial Multistage Forms."

### Don T. Phillips (Engineering)

B.S.E.E., Lamar State College of Technology

M.S.I.E., University of Arkansas

Dissertation: "A Markovian Analysis of the Conveyor-Serviced Ordered Entry Queueing System with Multiple Servers and Multiple Queues."

### Louis David Ponthieu (Business Administration)

B.B.A., North Texas State University

M.B.A., North Texas State University

Dissertation: "Administrative Factors Affecting the Results Obtained from Error-Free Performance (Zero Defects) Motivation Programs in Selected Business Organizations."

### Wayne Roger Price (Psychology)

B.S., College of William and Mary

M.A., University of Arkansas

Dissertation: "Aversive Behavioral Modification with Extended Inter-Stimulus Intervals."

### Gayle D. Riggs (Economics)

A.B., Drury College

M.B.A., University of Arkansas

Dissertation: "Interfiber Competition and Cotton Consumption."

### Herman Prestridge Sandford (English)

A.B., Baylor University

M.A., Baylor University

Dissertation: "The Moral Vision of George Washington Cable."

### Delbert Craig Shew (Chemistry)

A.B., Hanover College

M.A., University of Indiana

Dissertation: I. Total Synthesis of *dl*-Carnosic Acid Dimethyl Ether. II. Alternate Approaches to the Introduction of 11-Oxygen Substituents: Total Synthesis of *dl*-Carnosol Dimethyl Ether.

### David R. Simmons (Mathematics)

B.S., Centenary College

M.S., University of Arkansas

Dissertation: "The Category of Relations."

### David Allen Sisemore (Psychology)

B.A., University of Arkansas

M.A., University of Arkansas

Dissertation: "Constant and Varied Stimulation as Influences on Discrimination Learning and Alternation Behavior."

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Thomas Joseph Slaga (Physiology)

B.A., Steubenville College

Dissertation: "Effects of Prolonged Acth Administration on Adrenal Steroid Biosynthesis."

Virgil Farnsworth Stone (Business Administration)

B.B.A., Midwestern University

M.Ed., Midwestern University

M.B.A., North Texas University

Dissertation: "The Contribution of the Controller Division in the Pricing Programs of Selected Frozen Foods Processors."

William Robert Taylor (Engineering)

B.S.E.E., Oklahoma State University

M.S.I.E., University of Arkansas

Dissertation: "Definition of Some Classes of Problems in Serial and Nonserial Multistage Decision Processes."

B. Travis Tunnell, Jr. (Psychology)

B.A., Little Rock University

M.A., University of Arkansas

Dissertation: "The Scaling of Tactile Extent and Auditory Duration by Blind and Sighted Subjects."

Bi Cheng Wang (Chemistry)

B.S., Cheng Kung University

Dissertation: "A Study of the Stereochemistry of Selenium: X-Ray Investigations on the Crystal Structures of 2,2'-Dipyridylum (II) Oxotetrachloroselenate (IV) and 2,2' - Dipyridylum (I) Dioxochloroselenate (IV)."

Lloyd Joseph Watson (Bacteriology)

B.S., Wheaton College

M.S., North Illinois University

M.A., Southern Illinois University

Dissertation: "Serum Proteins of Normal and Immune Fishes of the Family Cyprinidae."

Charles Richard Williams (Mathematics)

B.A., Oklahoma University

M.S., Oklahoma State University

Dissertation: "Natural Equivalences and Lifting Properties in Categories."

Wilton Leland Wilson (Marketing)

B.B.A., College of Arts & Industry

M.S., College of Arts & Industry

Dissertation: "The Marketing Concept Applied to Packaging Decisions in the White Bread Industry in South Central Texas."

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